uONE

One application for all unmanned systems
by a single operator

Features

- Multi-touch-based operation
- Simultaneously operate more than one mission
- Intuitive multi-platform and sensor situational awareness
- Gesture-based video control
- Seamless video swap control
- Open architecture
- Web based operations
- Support for web-based 3D map engines

Benefits

- Support for air, land and naval missions
- Lower training costs
- Reduced personnel headcount
- Rapid new app integration
- COTS components

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Elbit Systems' Unmanned Operating System (uONE) represents a true innovation in the unmanned systems domain - whether on land, in the air or at sea. While standard practice is for multiple operators to control an unmanned mission, Elbit Systems' modern and pioneering uONE allows a single operator to control the entire mission, or even several missions simultaneously. This innovation drives operational efficiencies, significantly reducing operational costs for both personnel and training.

This next-generation solution utilizes the latest technologies to reduce operator load and enables a single operator to manage complex mission situational awareness.

For example, using the uONE operators can seamlessly control any of the full range of unmanned aerial systems (UAS), including man-portable platforms like the Skylark™ I-LEX mini UAS, versatile tactical platforms and large next-generation platforms like the Hermes™ 900 medium altitude long endurance (MALE) UAS. uONE maintains the existing data link for each unmanned system.

The application offers intuitive touch-based operation, gesture-based video control and advanced human-engineering principles inspired by the world of smartphones.

Developed by Elbit Systems, a world leader in defense solutions, the uONE builds on over three decades of experience in the design, development and production of nearly all subsystems and components required for unmanned air, land and naval solutions. The company has achieved worldwide recognition for its innovative approach to all aspects of unmanned systems, including training, which has resulted in outstanding operational solutions for customers.

Intuitive, multi-touch operation:

The uONE offers touch-based operation that is intuitive in design and scope, especially in today's age of smartphones. Operators further benefit from screen angle/height flexibility that allows for enhanced ergonomics and operator comfort.

Reduced operating costs:

With the ability for a single operator to control multiple missions, the uONE directly reduces the traditionally high personnel costs and hardware involved in operating sophisticated UAS platforms. Its easy-to-use and easy-to-learn interface lessens the need for training, further reducing operational overhead.

Future-proof solution:

The uONE incorporates commercial-off-the-shelf (COTS) components that are designed to evolve with customers' needs. The software is built on web-based architecture that enables continuous new capabilities and rapid app integration, without affecting the solution's already-operational capabilities. The uONE is both backwards-compatible to existing systems and future-ready, and can be installed on a range of hardware at the customer's locations.

SKYLARK™ I-LEX

SKYLARK™ 3

SKY STRIKER

HERMES™ 450

HERMES™ 900

HERMES™ STARLINER